

Claims

- [c1] 1.A reduced odor dispersing pork production process comprising the steps of:
- providing a building configured to house a plurality of hogs;
 - providing a concrete pit beneath said building for retaining feces from said hogs;
 - providing an exhaust port, configured to exhaust vapors from said pit;
 - operating a fan in said exhaust port to remove said vapors;
 - positioning, exterior to said building, a partial filter, in a stream of air created by said fan;
 - said partial filter positioned and oriented for providing for an alternate airflow path of air around said partial filter, if said partial filter were to experience reduced ability to permit airflow through the partial filter, wherein said alternate airflow path is sized and configured so as to permit a substantial portion of said stream of air to continue to be exhausted from said building, during times of said reduced ability to permit airflow; and
 - feeding said hogs and thereby generating feces.
- [c2] 2.A process of claim 1 wherein said substantial portion of said stream is at least 95 percent.
- [c3] 3.A process of claim 1 wherein said stream of air is continuously above ground level after it exits said building.
- [c4] 4.A process of claim 3 wherein said partial filter has a concave shape

such that a space exterior to said partial filter is defined where said filter is both above said space and along a plurality of sides of said space.

- [c5] 5.A process of claim 4 wherein said partial filter comprises:
a frame; and
an absorptive media disposed within said frame.
- [c6] 6.A process of claim 5 wherein said absorptive media is a loose media which is poured into said frame.
- [c7] 7.A process of claim 6 wherein said loose media is wood chips.
- [c8] 8.A process of claim 7 further comprising the steps of:
applying a solution over said wood chips to remove some material which has collected thereon.
- [c9] 9.A process of claim 8 wherein said solution comprises:
water, sulfuric acid, acetic acid, pine oil, and an emulsifier.
- [c10] 10.A process of claim 9 wherein said emulsifier is dish washing liquid.
- [c11] 11.A process of claim 10 wherein said solution is sprayed on said wood chips with a hand-held sprayer.
- [c12] 12.A process of claim 8 wherein said partial filter comprises a V-shaped filter with a top extending over portions of a space defined by said V-shaped filter.
- [c13] 13.A process of claim 12 wherein said frame comprises: a plurality of plastic pipes and hardware cloth.

[c14] 14.A process of claim 13 wherein said hardware cloth is coated with polyvinylchloride.

[c15] 15.A process of housing animals and reducing odors exiting from a pit containing animal feces, the process comprising the steps of:
providing a building configured to house a plurality of animals;
providing a pit beneath said building configured to retain feces from said animals;
providing a fan to remove air from said pit;
placing a filter of loose organic material in front of a stream of air being blown by said fan;
blowing air through said filter and causing matter to collect on said loose organic material, thereby reducing an ability of said filter to permit airflow through said filter;
causing said filter to have an increased ability to permit airflow through said filter while simultaneously increasing a capability of said filter to remove said matter from said stream of air.

[c16] 16.A process of claim 15 wherein said step of causing said filter to have an increased ability to permit airflow comprises the steps of removing said loose organic material, and thereby creating a void in said filter, and pouring loose organic material into said void.

[c17] 17.A process of claim 15 wherein said step of causing said filter to have an increased ability to permit airflow comprises the steps of spraying a solution onto said loose organic material to cleanse said loose organic material.

[c18] 18.A process of claim 17 wherein said loose organic material comprises wood chips.

[c19] 19.A process of claim 17 wherein said step of spraying a solution comprises a step of placing a spray nozzle behind said filter and spraying said solution in a direction of a stream of air when said stream of air is being blown from said fan to exhaust vapors from said pit.

[c20] 20.A process of raising livestock and reducing odors resulting from confinement of such livestock comprising the steps of:
providing a building configured to house livestock;
said building being further configured to allow feces from said livestock to collect in a pit disposed beneath said building;
providing a plurality of exhaust fans, configured to exhaust air from said pit, thereby removing noxious vapors from said pit;
providing a plurality of filters, where each of said plurality of filters is disposed in a stream of air generated by one of said plurality of exhaust fans;
wherein each of said plurality of filters comprises:
a concave-shaped frame of pipes and mesh; and
a top section disposed over a space defined by said concave-shaped frame;
pouring wood chips into a space defined by said coated hardware cloth and supported by said polyvinylchloride pipes;
feeding said livestock while housed in said building, thereby causing feces to collect in said pit;

removing noxious fumes from said pit by blowing air through said plurality of filters; and
spraying, from a hand-held sprayer located at an internal side of said concave-shaped frame, a solution comprising: water, sulfuric acid, acetic acid, and pine oil.